



7. The arrangement as defined in one of the foregoing claims,  
wherein the semiconductor layers (12, 14, 20, 22) are arranged on an n-doped substrate (10).
8. The arrangement as defined in one of the foregoing claims,  
wherein the semiconductor layers are arranged on a p-doped substrate.
9. The arrangement as defined in one of the foregoing claims,  
wherein the doping type of the semiconductor layer farthest away from the substrate (10) corresponds to the doping type of the substrate (10).
10. The arrangement as defined in one of the foregoing claims,  
wherein the doping type of the semiconductor layer farthest away from the substrate is different from the doping type of the substrate.
11. The arrangement as defined in one of the foregoing claims,  
wherein the semiconductor layers (12, 14, 20, 22) have a thickness of approximately 4  $\mu\text{m}$ .
12. The arrangement as defined in one of the foregoing claims,  
wherein the substrate (10) has a thickness of approximately 500  $\mu\text{m}$ .
13. The arrangement as defined in one of the foregoing claims,  
wherein the doping concentration is in the region of  $2 \times 10^{19}$  atoms/cm<sup>3</sup>.

14. The arrangement as defined in one of the foregoing claims,  
wherein approximately ten transitions between p-doped semiconductor layers (12) and n-doped semiconductor layers (14) are provided.

15. The arrangement as defined in one of the foregoing claims,  
wherein it has on its upper side and lower side respective metal contacts (16, 18) which extend over their entire surface.

16. The arrangement as defined in one of the foregoing claims,  
wherein the semiconductor layers (10, 12, 20, 22) are silicon layers.

17. A method for manufacturing an arrangement having p-doped semiconductor layers (12, 20, 22) and n-doped semiconductor layers (14, 10) which exhibits transitions between the p-doped semiconductor layers (12, 20, 22) and n-doped semiconductor layers (14, 10), the transitions displaying a Zener breakdown upon application of a voltage characteristic of a transition, a plurality of transitions between p-doped semiconductor layers (12, 20, 22) and n-doped semiconductor layers (14, 10) being present, and the characteristic voltages additively making up the breakdown voltage of the entire arrangement, the method comprising application of the semiconductor layers (12, 14, 20, 22) by epitaxy.

18. The method as defined in Claim 17,  
wherein the epitaxy takes place at approximately 1180°C.

19. The method as defined in Claim 17 or 18,  
wherein the epitaxy is performed at a growth rate of approximately 4  $\mu\text{m}/\text{min}$ .

